```
111111111
                                                                   TTTTTTTTTTTTT
                    TITITITITITI
                                                                                    LLL
                    LLL
                                                                   TTTTTTTTTTTTT
                                                                                    LLL
                                             888
888
888
888
                                 888
                                                  RRR
LLL
                       III
                                                              RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 888
888
                                                  RRR
                                                              RRR
                       H
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRR
                                                              RRR
                       III
LLL
                                                                         TIT
                                                                                    LLL
                                 888
                                             BBB
                                                              RRR
                                                  RRR
                       III
LLL
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                       III
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 III
                                                  RRRRRRRRRRR
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 BBBBBBBBBBBBB
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 888
                                                  RRR
                                                        RRR
                                             BBB
LLL
                       111
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                                                  RRR
                                                        RRR
                       111
LLL
                                                                         TIT
                                                                                    LLL
                       ĬĬĬ
                                 888
                                                  RRR
                                                        RRR
LLL
                                             BBB
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
LLL
                       111
                                 BBB
                                             BBB
                                                  RRR
                                                           RRR
                                                                         TIT
                                                                                    LLL
                                 LLLLLLLLLLLLLLL
                    1111111111
                                                  RRR
                                                              RRR
                                                                         TTT
                                                                                    LLLLLLLLLLLLL
LLLLLLLLLLLLLL
                    RRR
                                                              RRR
                                                                         TTT
                                                                                    LLLLLLLLLLLLLL
RRR
                                                              RRR
                    111111111
                                                                         III
                                                                                    LLLLLLLLLLLLLL
```

1

Sy

000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	VV	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	HH HH HH HH HHHHHHHH HH HH HH HH HH	
		\$						

01 1-

B 3 01 1-OTSSCVTPH\_R9 Table of Contents Convert Packed to H floating 16-SEP-1984 00:26:18 VAX/VMS Macro V04-00 Page 0 HISTORY DECLARATIONS OTS\$CVTPH\_R9 49 57 92 (2) (3) (4) ; Detailed Current Edit History

OTS\$CVTPH\_R9 1-001

Ma\_S

OT

Sy

CO DS DS LI OT

OT OT

PS

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Co Pa Sy Pa Sy Ps

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18

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MA

OTS\$CVTPH_R9 1-001	D 3  Convert Packed to H floating 16-SEP-1984 00:26:18 VAX/VMS Macro V04-00 Page HISTORY; Detailed Current Edit History 6-SEP-1984 11:13:22 [LIBRTL.SRC]OTSCVTPH.MAR;1	(2)
	0000 50 0000 51 0000 52; Edit History for Version 1 of OTSCVTPH 0000 53; 0000 54; 1-001 - Original. PLL 18-Jan-1982 0000 55	

```
E 3
OTS$CVTPH_R9
1-001
                                        Convert Packed to H floating DECLARATIONS
                                                                                            16-SEP-1984 00:26:18 VAX/VMS Macro V04-00 6-SEP-1984 11:13:22 [LIBRTL.SRC]OTSCVTPH.MAR;1
                                                                                                                                                                   3
(3)
                                                         57
58
59
                                               0000
                                                                       .SBTTL DECLARATIONS
                                               ŎŎŎŎ
                                                            : INCLUDE FILES:
                                                         60
                                                         61
                                                         63
                                                                       $DSCDEF
                                                         64
                                                            EXTERNAL SYMBOLS:
                                               0000
                                               0000
                                                         66789012345678901234567890
                                                                       .DSABL GBL
                                                                                                     ; Prevent undeclared symbols from being ; automatically global
                                               0000
                                                                       .EXTRN OTS$CVT_T_H
                                                                                                     ; D, E, f, G Conversion routine
                                               0000
                                               0000
                                                               MACROS:
                                               0000
                                               0000
                                                                       NONE
                                               0000
                                         0000
0000
0000
0000
0000
                                                               PSECT DECLARATIONS:
                                                                       .PSECT _OTS$CODE
                                                                                                     PIC, SHR, LONG, EXE, NOWRT,-
                                                                                                     USR, CON, REL, LCL, RD
                                               ŎŎŎŎ
                                                               EQUATED SYMBOLS:
                                               0000
                                               0000
                                                                       NONE
                                               0000
                                               0000
                                               0000
                                                               OWN STORAGE:
                                               0000
                                                                       NONE
```

0000

OT

Ťa

```
F 3
OTS$CVTPH_R9
                                     Convert Packed to H floating
                                                                                     16-SEP-1984 00:26:18
6-SEP-1984 11:13:22
                                                                                                               VAX/VMS Macro V04-00
1-001
                                     OTS$CVTPH_R9
                                                                                                               [LIBRTL.SRC]OTSCVTPH.MAR; 1
                                                                                                                                                       (4)
                                           0000
                                                    92
93
                                                                  .SBTTL OTS$CVTPH_R9
                                           ŎŎŎŎ
                                                    94
                                           0000
                                                    95
                                                        : FUNCTIONAL DESCRIPTION:
                                                    96
97
                                           0000
                                           0000
                                                                 Converts packed numbers to h floating.
                                           0000
                                                    98
                                                    99
                                           0000
                                                          CALLING SEQUENCE:
                                           0000
                                                   100
                                           0000
                                                   101
                                                                 JSB OTS$CVTPH_R9 (scale.rl.v, srclen.rl.v, src.rp.r, dst.wh.r)
                                                   102
                                           0000
                                           0000
                                                                 Arguments are passed in R6, R7, R8 and R9.
                                           ŎŎŎŎ
                                                   104
                                           0000
                                                   105
                                                          INPUT PARAMETERS:
                                                   106
                                           0000
                                           0000
                                                                 SCALE.rl.v
                                                                                             The power of ten by which the internal
                                           0000
                                                   108
                                                                                             representation of the source must be
                                                   109
                                           0000
                                                                                             multiplied to scale the same as the
                                           0000
                                                   110
                                                                                              internal representation of the dest.
                                           0000
                                                   111
                                                                 SRCLEN.rl.v
                                                                                             The number of digits in the source
                                                   112
                                           0000
                                                                 SRC.rp.r
                                                                                             The number to be converted
                                           0000
                                                   114
                                           0000
                                                          IMPLICIT INPUTS:
                                           0000
                                                   115
                                                   116
                                           0000
                                                                 All of the trap bits in the PSL are assumed off.
                                           0000
                                                   117
                                           0000
                                                   118
                                                          OUTPUT PARAMETERS:
                                           0000
                                                   119
                                                   120
121
122
123
124
125
126
127
                                                                 DST.wh.r
                                                                                             The place to store the converted number
                                                          IMPLICIT OUTPUTS:
                                           0000
                                                                 NONE
                                           0000
                                           0000
                                                          FUNCTION VALUE:
                                           0000
                                                   128
129
130
131
133
135
136
138
                                           0000
                                                                 1 = SUCCESS, 0 = FAILURE
                                                          SIDE EFFECTS:
                                                                 Destroys registers RO through R9.
                                                       OTS$CVTPH_R9::
                                                                 SOBL 2
                          5E
68
                                28
57
                                                                          #40.SP
                                                                                                      ; Space for temp string and re; Make a separate sign string
                                                                                                         Space for temp string and result
                    1 F
                                                   139
                                                                          R7, (R8),#31,8(SP)
           08 AE
                                           0003
                                                                 CVTPS
                                           0009
                                                   140
                                                   141
                                                          Make a descriptor for the leading separate string.
                                           0009
                                                   142
                                53
01
0E
20
                                      DD
90
90
                                           0009
                                                                 PUSHL
                                                                                                         Address = temp string
                                                                          #DSC$K_CLASS_S,-(SP)
#DSC$K_DTYPE_T,-(SP)
#32,-(SP)
                          7E
7E
7E
                                           000B
                                                   144
                                                                 MOVB
                                                                                                         Class = static
                                           ÖÖÖE
                                                   145
                                                                                                         Data type = ASCII text
                                                                 MOVB
                                                   146
                                      BÒ
                                           0011
                                                                                                       : Length = 32 bytes
                                                                 MOVW
                                           0014
                                           0014
                                                   148
                                                          Now call the conversion routine.
```

00000000	7E 10 0C GF 0C 08 50	560 AE 050 AE 030 30	CE DDF 9F FB FB 70FD 005	0014 0017 0017 0016 0026 0026 0031 0034	149 150 151 153 154 156 157 158 159	; 1\$:	MNEGL PUSHAB PUSHAB CALLS BLBC MOVH MOVL ADDL2 RSB	R6,-(SP) #0 16(SP) 12(SP) #4,G^OTS\$CVT_T_H R0,2\$ 8(SP),(R9) #1,R0 #48,SP	; Scale factor; Digits in fraction; Address of result area; Address of descriptor; Call the routine; Failure, must be overflow; Store result; Indicate success; Delete stack temps; Return
69	01	OF 50 F4	79 04 11	0035 0035 0035 0035 0039 003D 003D	159 160 161 162 163 164 165 166	Come 25:	here on ASHQ CLRL BRB .END	overflow to store the #15,#1,(R9) R0 1\$	reserved operand.  ; Store reserved operand ; Indicate failure ; Delete stack temps and return

G 3

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10
```

```
H 3
                                                                                           16-SEP-1984 00:26:18
6-SEP-1984 11:13:22
OTSSCVTPH R9
                                        Convert Packed to H floating
                                                                                                                      VAX/VMS Macro V04-00
                                                                                                                                                         Page
Symbol table
                                                                                                                      [LIBRTL.SRC]OTSCVTPH.MAR:1
                                                                                                                                                                 (4)
DSCSK_CLASS_S
DSCSK_DTYPE_T
OTSSCVTPH_R9
                                       = 00000001
                                       = 0000000F
                                         00000000 RG
                                                            00
OTSSCVT_T_H
                                          ******
                                                              Psect synopsis
PSECT name
                                        Allocation
                                                                 PSECT No.
                                                                              Attributes
   ABS
                                        00000000
                                                                        0.)
                                                                               NOPIC
                                                                                        USR
                                                                                                                                          NOWRY NOVEC BYTE
                                                                                                CON
                                                                                                       ABS
                                                                                                               LCL NOSHR NOEXE NORD
$ABS$
                                        00000000
                                                           Ď.)
                                                                        1.)
                                                                 ÕĨ
                                                                              NOPIC
                                                                                        USR
                                                                                                CON
                                                                                                       ABS
                                                                                                               LCL NOSHR
                                                                                                                             EXE
                                                                                                                                     RD
                                                                                                                                            WRT NOVEC BYTE
_OTS$CODE
                                        0000003b
                                                                                                                             ĒXE
                                                                                 PIC
                                                                                        USR
                                                                                                CON
                                                                                                                                     RD
                                                                                                                      SHR
                                                                                                                                          NOWRT NOVEC LONG
                                                          Performance indicators
Phase
                               Page faults
                                                  CPU Time
                                                                     Elapsed Time
                                                  00:00:00.05
                                                                     00:00:00.92
Initialization
                                                                    00:00:02.41
                                                  00:00:00.32
Command processing
                                        116
                                        133
                                                  00:00:01.09
Pass 1
                                         4322
                                                                     00:00:00.33
Symbol table sort
                                                  00:00:00.10
Pass 2
                                                  00:00:00.30
                                                                     00:00:01.89
Symbol table output
                                                  00:00:00.01
                                                                     00:00:00.01
Psect synopsis output
                                                  00:00:00.02
                                                                     00:00:00.02
                                                                     00:00:00.00
Cross-reference output
                                                  00:00:00.00
Assembler run totals
                                                  00:00:01.90
                                                                     00:00:10.75
The working set limit was 900 pages. 8057 bytes (16 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 133 non-local and 2 local symbols. 167 source lines were read in Pass 1, producing 10 object records in Pass 2. 8 pages of virtual memory were used to define 7 macros.
                                                         Macro library statistics !
```

Macro library name

Macros defined

\_\$255\$DUA28:[SYSLIB]STARLET.MLB:2

190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:OTSCVTPH/OBJ=OBJ\$:OTSCVTPH MSRC\$:OTSCVTPH/UPDATE=(ENH\$:OTSCVTPH)

0212 AH-BT13A-SE

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